JC14 REPCT/PTO 29 JUN 2005

SEQUENCE LISTING

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<110> KOCHENDOERFER, GERD G.
      SHAO, HAIYAN
      CRESSMAN, SONYA
<120> MULTIPLEX POLYMER LIGATION
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<151> 2002-12-30
<150> 60/515,609
<151> 2003-10-29
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<223> synthetic granulocyte stimulating protein
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<223> Xaa = a non-native lysine chemically modified at
      the epsilon-amino group with an oxime linker group
      coupled to a designated water-soluble polymer
      through an oxime bond (or intermediates which
      contain AoA)
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<223 > Xaa = Nle (norleucine)
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<223> Xaa = psi (non-native amino acid residue
      consisting of a cysteine that is
      carboxamidemethylated at the sulfhydryl group)
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      the epsilon-amino group with an oxime linker group
      coupled to a designated water-soluble polymer
      through an oxime bond (or intermediates which
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contain AoA)

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Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
                            40
Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys
Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
                                    90
Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
                                105
Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro
                            120
                                                125
Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
                        135
                                            140
Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
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Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
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- <222> (121)...(121) <223> Xaa = Nle (norleucine)
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- <221> VARIANT <222> (131)...(131)
- <223> Xaa = psi (non-native amino acid residue consisting of a cysteine that is carboxamidemethylated at the sulfhydryl group)
- <221> VARIANT
- <222> (133)...(133)
- <223> Xaa = a non-native lysine chemically modified at



the epsilon-amino group with an oxime linker group coupled to a designated water-soluble polymer through an oxime bond (or intermediates which contain AoA)

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Glu Lys Leu 35	Cys Ala T	Thr Tyr Lys 40	Leu Cys	His Pro	Glu Glu 45	Leu Val	
Leu Leu Gly 50	His Ser L	Leu Gly Ile 55	Pro Xaa	Ala Pro 60	Leu Ser	Ser Cys	i
Pro Ser Gln 65		Gln Leu Ala 70	Gly Cys	Leu Ser 75	Gln Leu	His Ser 80	
Gly Leu Phe	Leu Tyr G	Gln Gly Leu	ı Leu Gln 90	Ala Leu	Glu Gly	Ile Ser 95	
Pro Glu Leu	Gly Pro T	Thr Leu Asp	Thr Leu 105	Gln Leu	Asp Val	Ala Asp)
Phe Ala Thr 115	Thr Ile T	Frp Gln Glr 120		Glu Leu	Gly Xaa 125	Ala Pro	,
Ala Leu Xaa 130	Pro Xaa G	Gln Gly Ala 135	Met Pro	Ala Phe 140	Ala Ser	Ala Phe	:
Gln Arg Arg 145	_	Gly Val Let 150	ı Val Ala	Ser His 155	Leu Gln	Ser Phe	
Leu Glu Val	Ser Tyr A	Arg Val Leu	Arg His 170		Gln Pro		